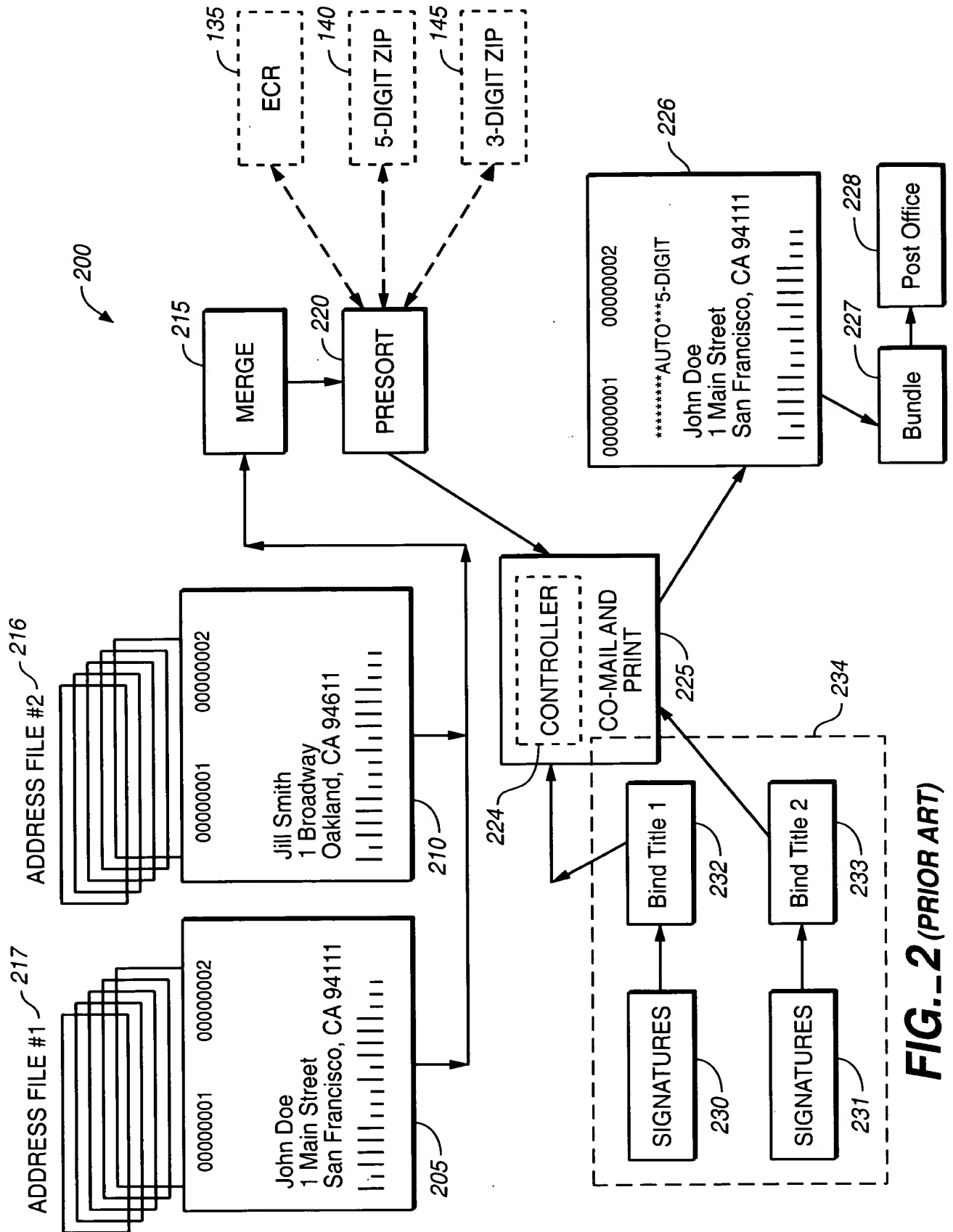


FIG.-1
(PRIOR ART)



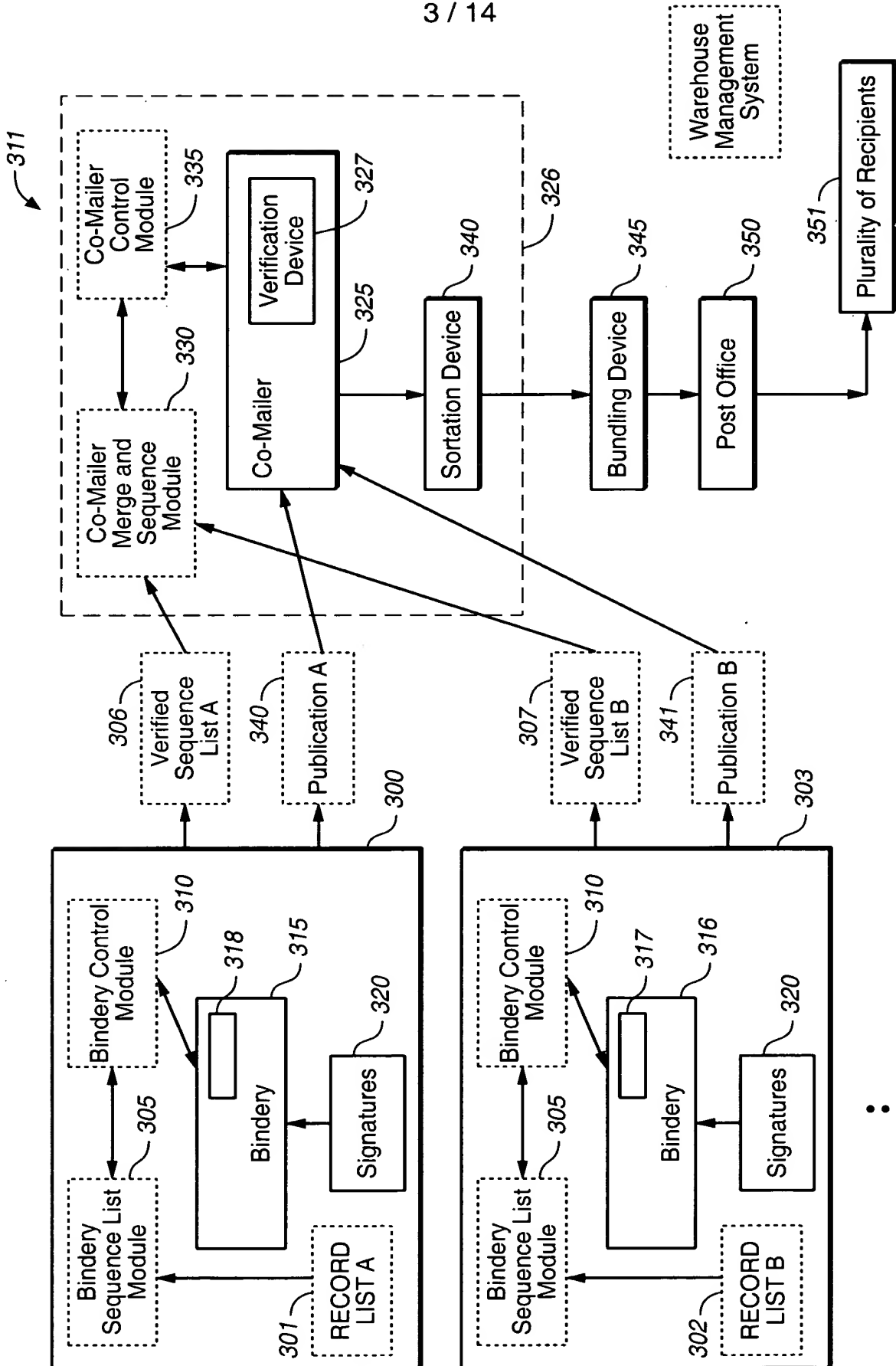
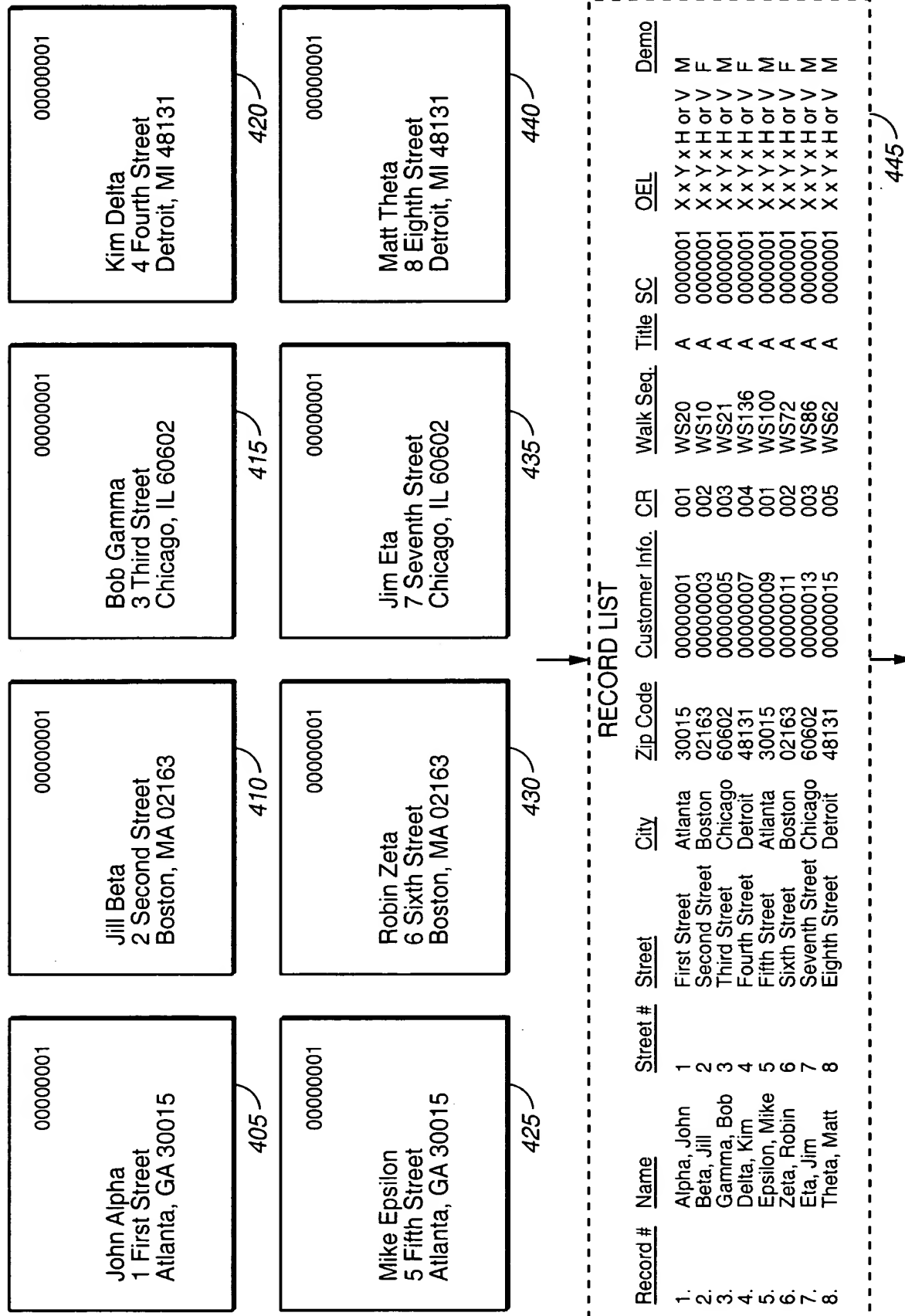


FIG. 3

**FIG. 4**

TO FIG. 5

FROM FIG. 4

BINDERY SEQUENCE LIST MODULE

- 1. Sequence by zip code beginning with lowest zip code
- 2. Within each zip code, sequence by carrier route
- 3. Within each carrier route, sequence by walk sequence with lower walk sequence first

SEQUENCE LIST

Seq. #	Record #	Name	Street #	Street	City	Zip Code	Customer Info.	CR	Walk Seq.	Title	SC	OEL	Demo
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	X x Y x H or V	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	X x Y x H or V	F
3.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	X x Y x H or V	M
4.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	X x Y x H or V	M
5.	4.	Delta, Kim	4	Fourth Street	Detroit	48131	00000007	004	WS136	A	0000001	X x Y x H or V	F
6.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	X x Y x H or V	M
7.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	X x Y x H or V	M
8.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	X x Y x H or V	M

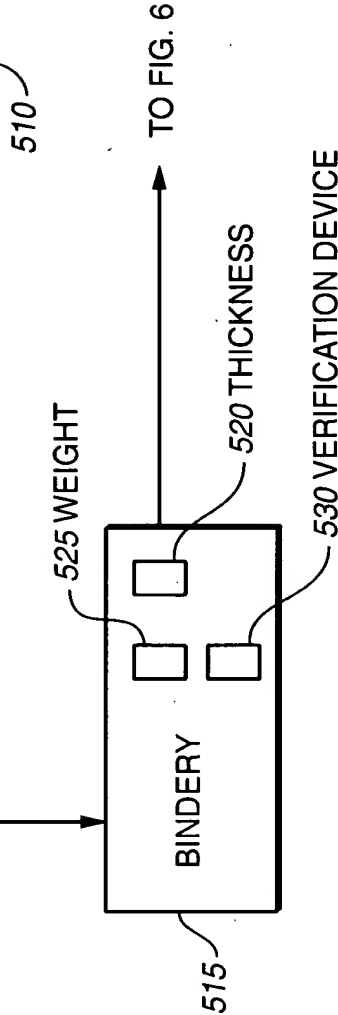


FIG. 5

FROM FIG. 5J

00000003 00000004
Jill Beta
2 Second Street
Boston, MA 02163

00000011 00000013
Robin Zeta
6 Sixth Street
Boston, MA 02163

00000001 00000002
John Alpha
1 First Street
Atlanta, GA 30015

00000009 00000010
Mike Epsilon
5 Fifth Street
Atlanta, GA 30015

00000005 00000006
Bob Gamma
3 Third Street
Chicago, IL 60602

00000013 00000013
Jim Eta
7 Seventh Street
Chicago, IL 60602

00000007 00000008
Kim Delta
4 Fourth Street
Detroit, MI 48131

00000015 00000016
Matt Theta
8 Eighth Street
Detroit, MI 48131

VERIFIED SEQUENCE LIST A

Seq. #	Rec #	Name	Street #	Street	City	Zip Code	Cl.	CR	Walk Seq.	Title	SC	OEL	Wt.	Thick	Bundle	Demo
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	00000001	XxYxHxv	1.5	.19	1	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	00000001	XxYxHxv	1.5	.19	1	F
3.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	00000001	XxYxHxv	1.5	.19	1	M
4.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	00000001	XxYxHxv	1.5	.19	1	M
BINDERY ERROR FOR SEQUENCE NO. 5																
5.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	00000001	XxYxHxv	2.0	.25	1	M
6.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	00000001	XxYxHxv	1.5	.19	1	M
7.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	00000001	XxYxHxv	1.5	.19	1	M
MIXED MAIL																
1.	4.	Delta, Kim	4	Fourth Street	Detroit	48131	00000007	004	WS136	A	00000001	XxYxHxv	1.5	.19	1	F

FIG.-6

FROM FIG. 6

VERIFIED SEQUENCE LIST A

Seq. #	Rec #	Name	Street #	Street	City	Zip Code	Cl.	CR	Walk Seq.	Title	SC	OEL	Wt.	Thick	Bundle	Demo
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	00000001	XxYxHorV	1.5	.19	1	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	00000001	XxYxHorV	1.5	.19	1	F
3.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	00000001	XxYxHorV	1.5	.19	1	M
4.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	00000001	XxYxHorV	1.5	.19	1	M
BINDERY ERROR FOR SEQUENCE NO. 5																
5.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	00000001	XxYxHorV	2.0	.25	1	M
6.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	00000001	XxYxHorV	1.5	.19	1	M
7.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	00000001	XxYxHorV	1.5	.19	1	M
MIXED MAIL																
1.	4.	Delta, Kim	4	Fourth Street	Detroit	48131	00000007	004	WS136	A	00000001	XxYxHorV	1.5	.19	1	F

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605

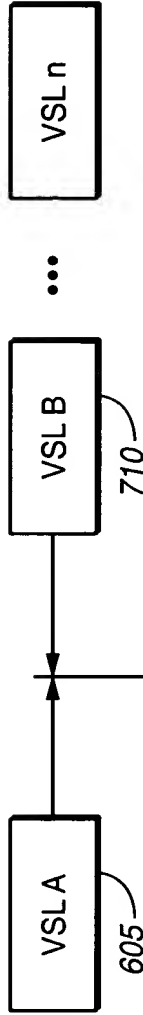
VERIFIED SEQUENCE LIST B

Seq. #	Rec #	Name	Street #	Street	City	Zip Code	Cl.	CR	Walk Seq.	Title	SC	OEL	Wt.	Thick	Bundle	Demo
1.	6.	Xi, Pat	13	Fourteenth St.	Boston	02163	00000027	002	WS64	B	00000002	X'xY'xHorV	2.0	.19	1	F
2.	4.	Mu, Joe	13	Twelfth St.	Boston	02163	00000023	002	WS45	B	00000002	X'xY'xHorV	2.0	.19	1	M
3.	5.	Nu, Barb	13	Thirteenth St.	Atlanta	30015	00000025	003	WS10	B	00000002	X'xY'xHorV	2.0	.19	1	F
4.	1.	Iota, Rob	9	Ninth St.	Atlanta	30015	00000017	001	WS53	B	00000002	X'xY'xHorV	2.0	.19	1	M
5.	7.	Omicron, Deb	15	Fifteenth St.	Detroit	48131	00000029	004	WS45	B	00000002	X'xY'xHorV	2.0	.19	1	F
6.	8.	Pi, Gayle	16	Sixteenth St.	Detroit	48131	00000031	004	WS74	B	00000002	X'xY'xHorV	2.0	.19	1	F
7.	2.	Kappa, Mark	10	Tenth St.	Chicago	60602	00000019	003	WS97	B	00000002	X'xY'xHorV	2.0	.19	1	M
8.	3.	Lambda, Paul	11	Eleventh St.	Chicago	60602	00000021	004	WS6	B	00000002	X'xY'xHorV	2.0	.19	1	M

FIG..7

TO FIG. 8

710



MEGED VERIFIED SEQUENCE LIST

Seq. #	Rec #	Name	Street #	Street	City	Zip Code	Cl.	CR	Walk Seq.	Title	SC	OEL	Wt.	Thick	Bundle	Demo
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	00000001	XxYxHorV	1.5	.19	1	F
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	00000001	XxYxHorV	1.5	.19	1	F
3.	4.	Mu, Joe	13	Twelfth St.	Boston	02163	00000023	002	WS45	B	00000002	X'xY'xHorV	2.0	.19	1	M
4.	6.	Xi, Pat	13	Fourteen St.	Boston	02163	00000027	002	WS64	B	00000002	X'xY'xHorV	2.0	.19	1	F
5.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	00000001	XxYxHorV	1.5	.19	1	M
6.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	00000001	XxYxHorV	1.5	.19	1	M
7.	1.	Iota, Rob	9	Ninth Street	Atlanta	30015	00000017	001	WS53	B	00000002	X'xY'xHorV	2.0	.19	1	M
8.	5.	Nu, Barb	13	Thirteenth St.	Atlanta	30015	00000025	003	WS10	B	00000002	X'xY'xHorV	2.0	.19	1	F
9.	7.	Omicron, Deb	15	Fifteenth St.	Detroit	48131	00000029	004	WS45	B	00000002	X'xY'xHorV	2.0	.19	1	F
10.	8.	Pi, Gayle	16	Sixteenth St.	Detroit	48131	00000031	004	WS74	B	00000002	X'xY'xHorV	2.0	.19	1	F
11.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	00000001	XxYxHorV	2.0	.25	1	M
13.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	00000001	XxYxHorV	1.5	.19	1	M
13.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	00000001	XxYxHorV	1.5	.19	1	M
13.	2.	Kappa, Mark	10	Tenth Street	Chicago	60602	00000019	003	WS97	B	00000002	X'xY'xHorV	2.0	.19	1	M
15.	3.	Lambda, Paul	11	Eleventh St.	Chicago	60602	00000021	004	WS6	B	00000002	X'xY'xHorV	2.0	.19	1	M

MIXED MAIL

1.	4.	Delta, Kim	4	Fourth Street	Detroit	48131	00000007	004	WS136	A	00000001	XxYxHorV	1.5	.19	1	F
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FIG.-8

TO FIG. 9

FROM FIG. 8

905

DETERMINE OPTIMIZED MAIL RATE

5-Digit Zip Code 1

CR1
CR1
CR1
...

CRT1

IF CRT1 \geq 10, THEN ASSIGN ECR MAIL RATE TO EACH RECORD
IF CRT1 \leq 10, THEN ASSIGN TO A-5 DIGIT TOTALCR2
CR2
...
CRn

5-DIGIT TOTAL

IF 5-DIGIT TOTAL \geq 10, THEN ASSIGN 5-DIGIT MAIL RATE TO EACH RECORDIF 5-DIGIT TOTAL $<$ 10, THEN ASSIGN TO A-3 DIGIT TOTAL

3-DIGIT TOTAL

IF 3-DIGIT TOTAL \geq 10, THEN ASSIGN 3-DIGIT MAIL RATE TO EACH RECORDIF 3-DIGIT TOTAL $<$ 10, THEN ASSIGN TO MIXED MAIL TOTAL

MIXED MAIL TOTAL

ASSIGN MIXED MAIL RATE TO EACH RECORD

5-Digit Zip Code 2
...

TO FIG. 10

FIG._9

FROM FIG. 9

OPTIMIZED MERGED VERIFIED SEQUENCE LIST

Seq. #	Rec #	Name	Street #	Street	City	Zip Code	Cl.	CR	WS	Title	SC	OEL	Wt.	Thick	Bundle	Demo	MR
1.	2.	Beta, Jill	2	Second Street	Boston	02163	00000003	002	WS10	A	0000001	XxYxHorV	1.5	.19	1	F	ECR
2.	6.	Zeta, Robin	6	Sixth Street	Boston	02163	00000011	002	WS22	A	0000001	XxYxHorV	1.5	.19	1	F	ECR
3.	4.	Mu, Joe	13	Twelfth St.	Boston	02163	00000023	002	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
4.	6.	Xi, Pat	13	Fourteen St.	Boston	02163	00000027	002	WS64	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
5.	1.	Alpha, John	1	First Street	Atlanta	30015	00000001	001	WS20	A	0000001	XxYxHorV	1.5	.19	1	M	3D
6.	5.	Epsilon, Mike	5	Fifth Street	Atlanta	30015	00000009	001	WS35	A	0000001	XxYxHorV	1.5	.19	1	M	ECR
7.	1.	Iota, Rob	9	Ninth Street	Atlanta	30015	00000017	001	WS53	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
8.	5.	Nu, Barb	13	Thirteenth St.	Atlanta	30015	00000025	003	WS10	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
9.	7.	Omicron, Deb	15	Fifteenth St.	Detroit	48131	00000029	004	WS45	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
10.	8.	Pi, Gayle	16	Sixteenth St.	Detroit	48131	00000031	004	WS74	B	0000002	X'xY'xHorV	2.0	.19	1	F	5D
11.	8.	Theta, Matt	8	Eighth Street	Detroit	48131	00000015	005	WS62	A	0000001	XxYxHorV	2.0	.25	1	M	5D
13.	3.	Gamma, Bob	3	Third Street	Chicago	60602	00000005	003	WS21	A	0000001	XxYxHorV	1.5	.19	1	M	3D
13.	7.	Eta, Jim	7	Seventh Street	Chicago	60602	00000013	003	WS86	A	0000001	XxYxHorV	1.5	.19	1	M	ECR
13.	2.	Kappa, Mark	10	Tenth Street	Chicago	60602	00000019	003	WS97	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
15.	3.	Lambda, Paul	11	Eleventh St.	Chicago	60602	00000021	004	WS6	B	0000002	X'xY'xHorV	2.0	.19	1	M	ECR
...																	
MIXED MAIL																	
1.	4.	Delta, Kim	4	Fourth Street	Detroit	48131	00000007	004	WS136	A	0000001	XxYxHorV	1.5	.19	1	F	REG

Co-Mailer

Sortation Device

Bundling Device → Post Office

1005

FIG._10

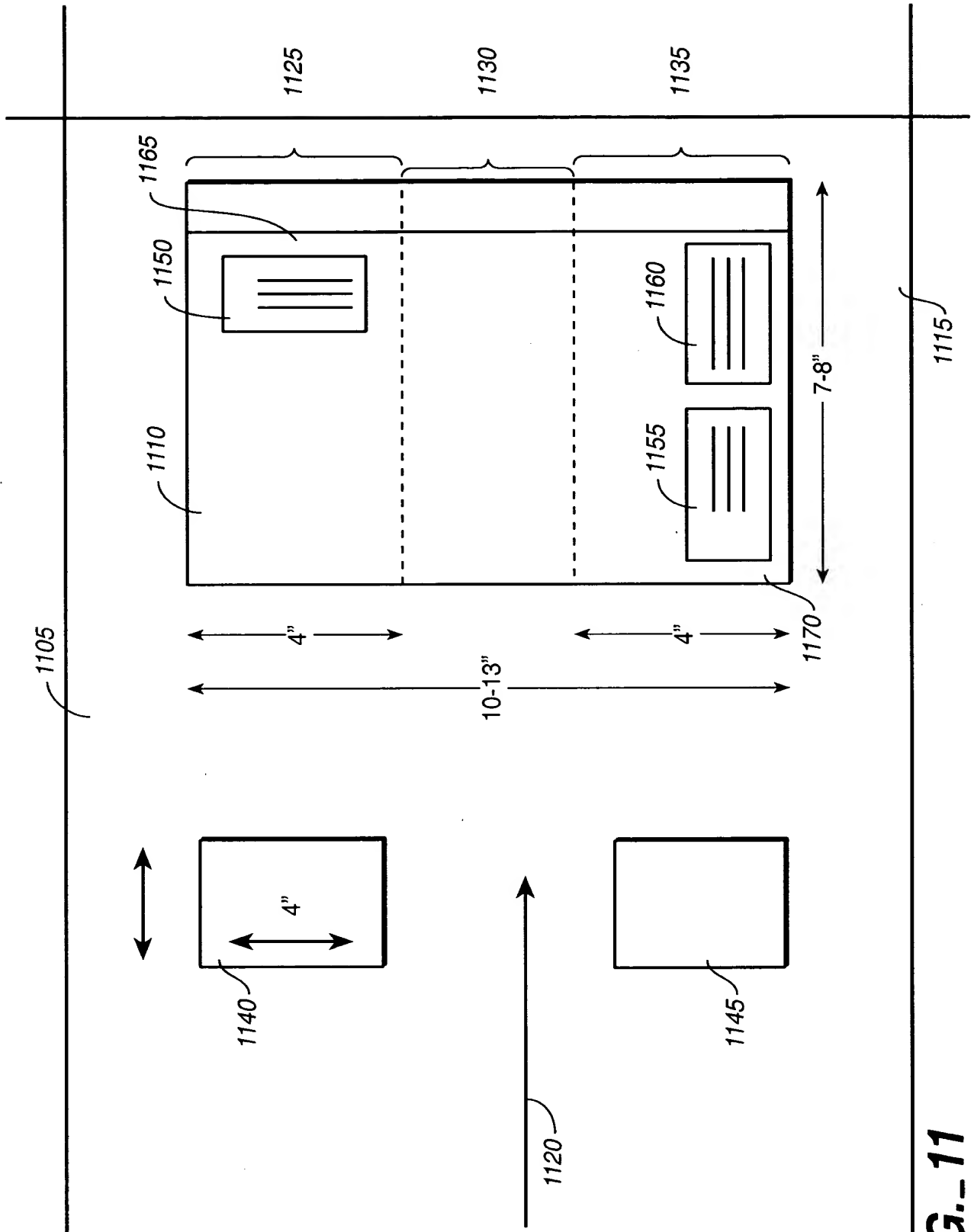


FIG. 11

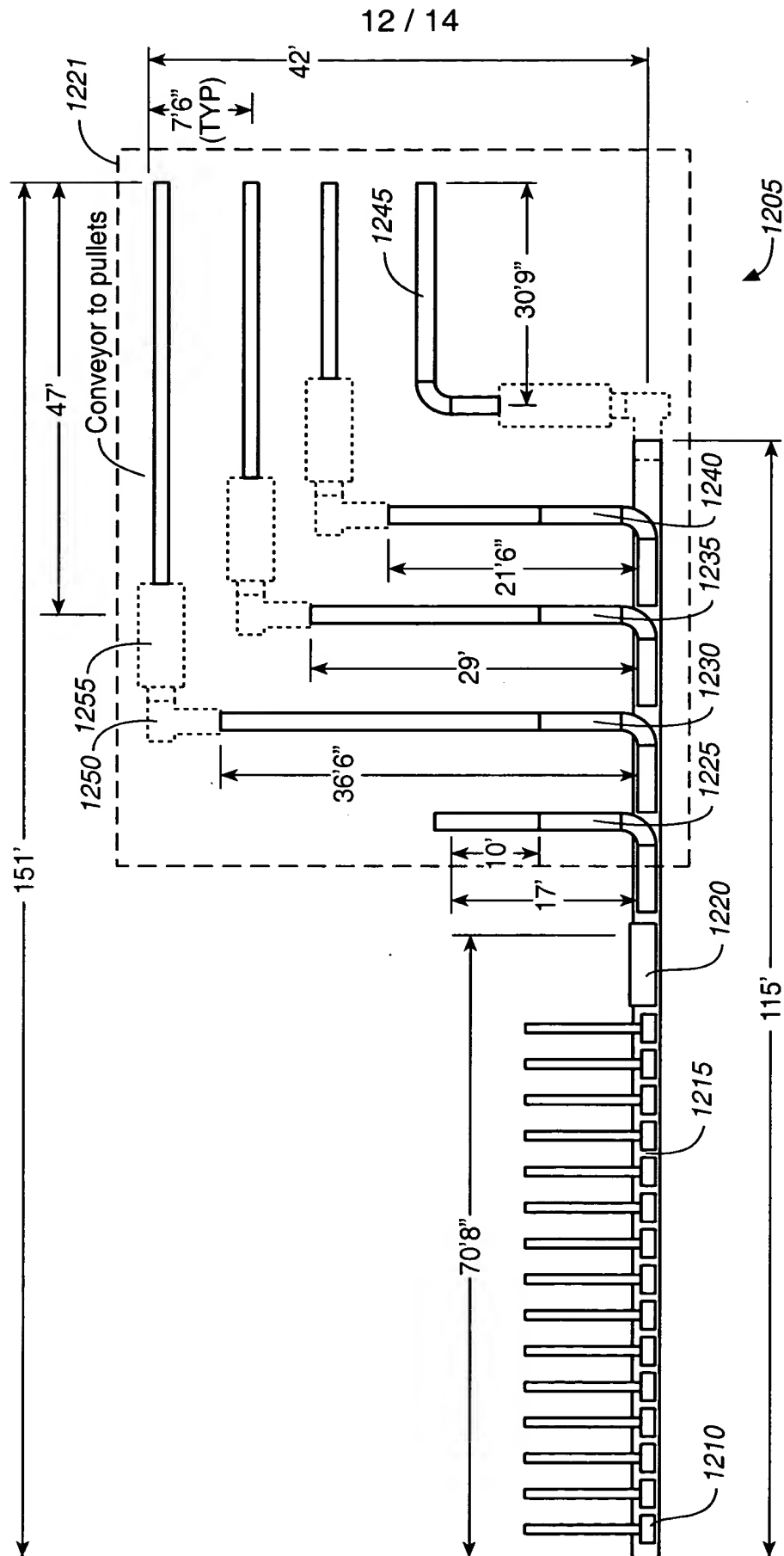
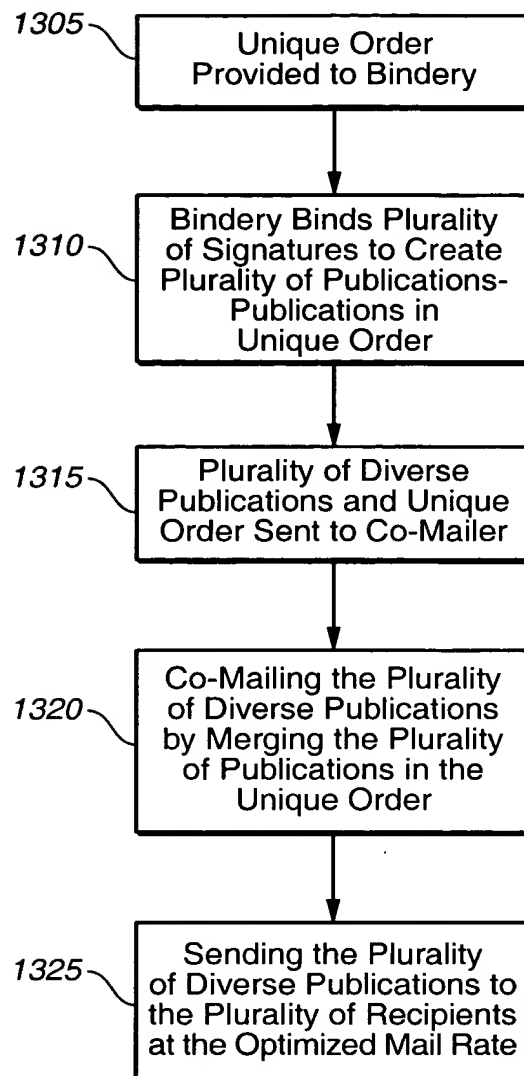
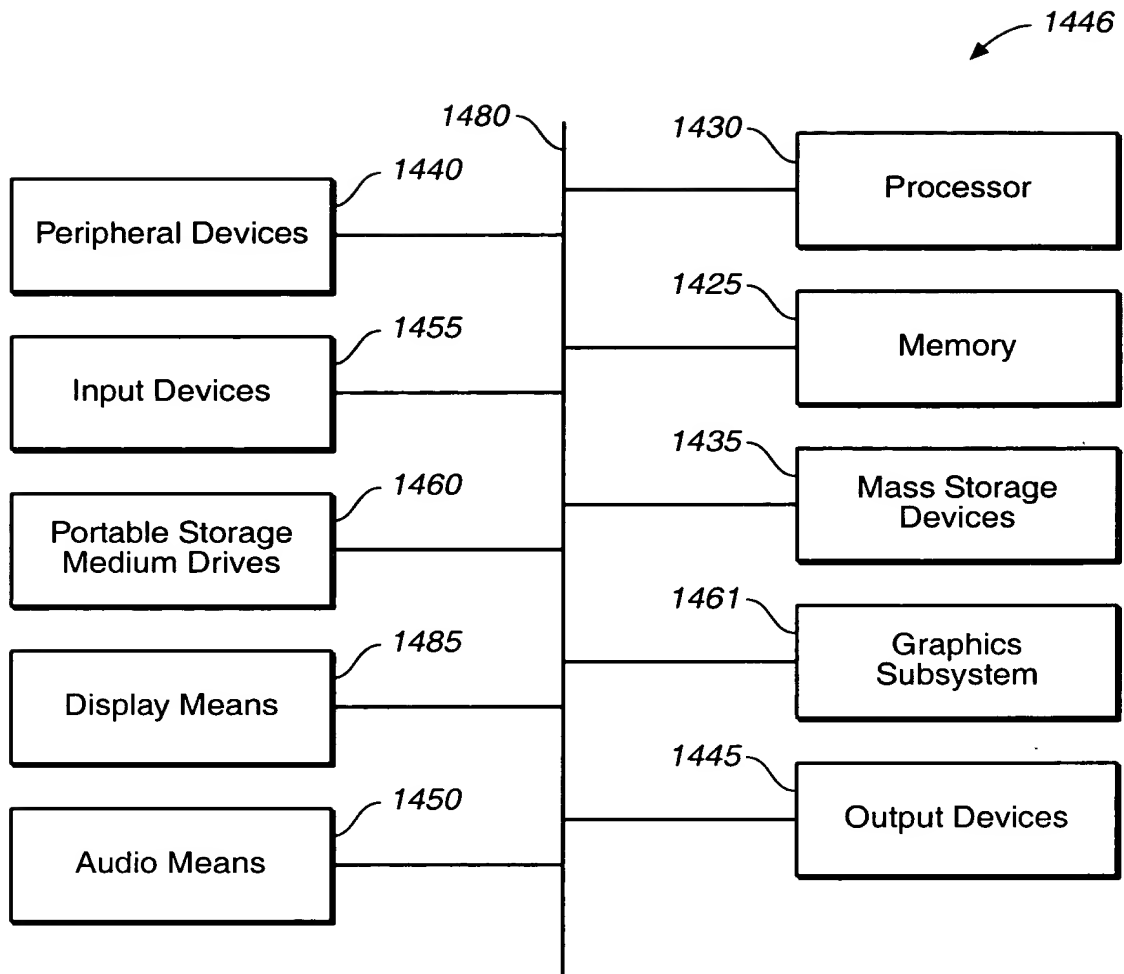


FIG. 12

**FIG. 13**

**FIG. 14**